MULTI-BAND RADIO CASSETTE RECORDER

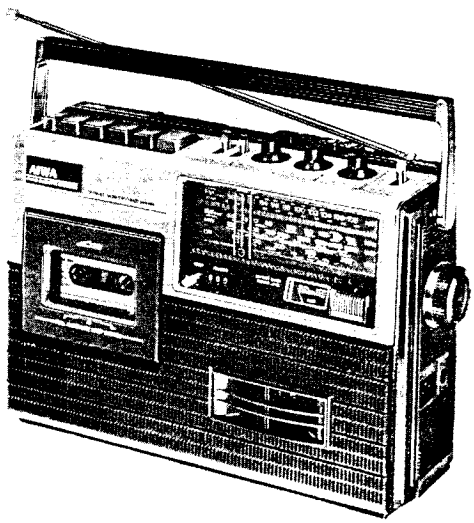
MODEL TPR-216 EE, UK

AIWA®

(SERVICE MANUAL)

ISO

Set using ISO screws



DATE OF ISSUE 25/1/1977

SPECIFICATIONS

Type:	4-band (FM/SW/MW/LW) radio-cassette recorder
Circuitry:	18 transistors, 15 diodes, 1 LED, 1 IC
Power source:	Batteries, DC 6V (UM-1 x 4) AC 110-120V/220-240V (switchable) Car battery (thru car adapter)
Output:	2500 mW, Max.
Power consumption:	9.5 W
Frequency response:	**Normal tape:** 50–10,000 Hz **CrO_2 tape:** 50–12,000 Hz
Speaker:	100 x 150 mm oval type, 8 ohms

Tape Recorder Section

Built-in microphone:	Electret condenser microphone
Tape speed:	4.8 cm/sec
Recording system:	AC bias
Erasing system:	AC erasure
Recording time:	90 min. (two ways, C-90 cassette)
S/N ratio:	55 dB
Wow & flutter:	0,14 % (WRMS)

Radio Section

Frequency range:	FM 87.5–108 MHz (3.43–2.87m) SW 5.9–18 MHz (50.9–16.6m) MW 525–1605 kHz (571–187m) LW 150–300 kHz (2,000–1,000m)
Antenna:	Whip antenna for FM and SW Ferrite bar antenna for MW and LW
Dimensions:	367 x 228 x 98 mm
Weight:	2,8 kgs (w/o batteries)

Accessories:

AC power cord	1
Cassette tape	1
Battery (Super UM-1)	4
Erase plug	1
Carrying case (EE model only)	1

The specifications and external appearance of this set are subject to change without prior notice.

DISASSEMBLY INSTRUCTIONS

1. To Remove Back Cover

1) Remove 5 screws.
(Refer to Fig. 1)

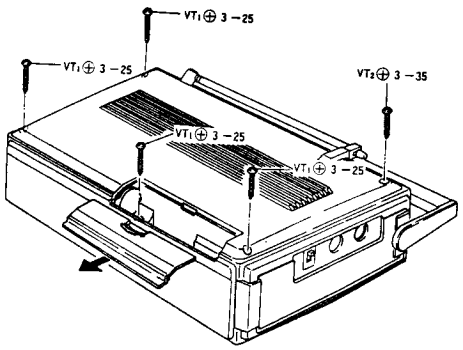


Fig. 1

2. To Remove Chassis

1) Pull out the control knobs.
2) Remove 7 screws.
(Refer to Fig. 2)

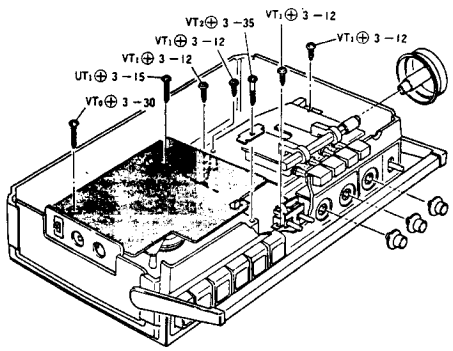


Fig. 2

3. To Remove REC/PB Circuit Board

1) Press 2 tabs in direction shown by arrows to remove circuit board.
(Refer to Fig: 3)

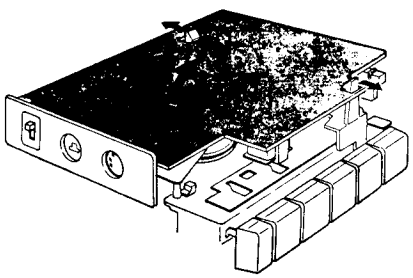


Fig. 3

4. To Remove AFC Switch Circuit Board

1) Remove 2 screws.
(Refer to Fig. 4)

5. To Remove Volume Circuit Board

1) Remove 3 nuts.
(Refer to Fig. 4)

6. To Remove Tape Selector Switch Circuit Board

1) Remove 2 screws.
(Refer to Fig. 4)

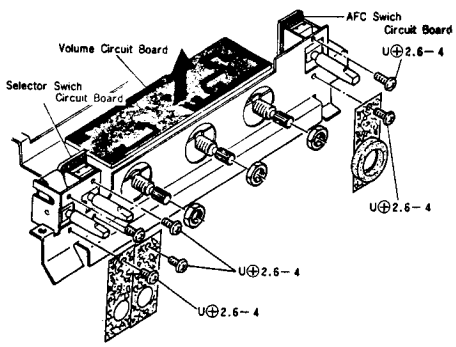
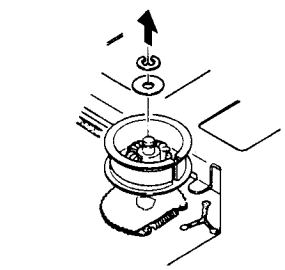


Fig. 4

7. To Remove Tuner Circuit Board

1) Remove E ring and washer.
2) Remove 3 screws.
(Refer to Fig. 5)



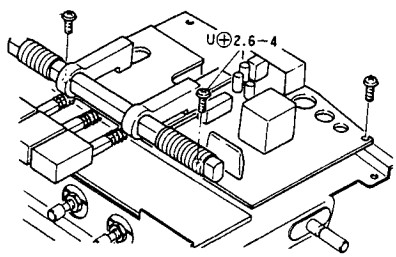


Fig. 5

8. **To Remove Power Circuit Board**
   1) Remove 2 screws.
   (Refer to Fig. 6)

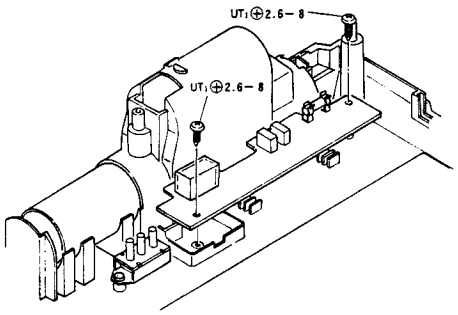


Fig. 6

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Email:- enquiries@mauritron.co.uk

ADJUSTMENTS

■ **Mechanical Section**

1. Thrust

Turn thrust adjusting screw in direction shown by arrow. Adjust for 0.2 ± 0.1 mm spacing between screw and flywheel.
(Refer to Fig. 7)

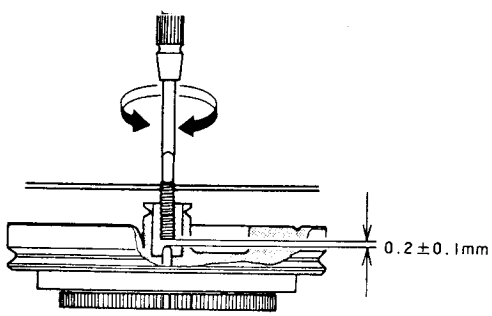


Fig. 7

2. Pause Spring

1) Confirm that pause spring lightly contacts the slider when slider tip is contacted at left side of worm wheel.
2) If space occurs between pause spring and slider due to strong pause spring contact with the slider, bend the pause spring so that the slider becomes lightly contacted. (Refer to Fig. 8)

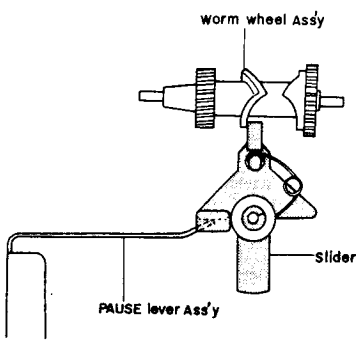


Fig. 8

3. Tape Speed

±3%
Use a standard test tape, TTA-111 (3 kHz) or equivalent.

4. Pinch Roller Pressure

$300\ ^{+50}_{-\ 0}$ g.

5. Wow and Flutter

0.12 ± 0.06% (WRMS) PB
Use a standard test tape, TTA-111 (3 kHz) or equivalent.

6. Take-up Torque

50 ±10 g-cm.

7. Rewind Torque

100 ±10 g-cm.

8. FF Torque

100 ±10g-cm.

9. Rewind Time

80 ±5 sec. (at C-60 cassette tape).

10. FF Time

80 ±5 sec. (at C-60 cassette tape).

11. Current Consumption

FWD: 105 ±20mA
FFWD: 160 ±25mA
REW: 160 ±25mA
(Mechanism unit only)

ADJUSTMENTS OF RADIO SECTION

1. Instruments Required

Signal Source

1. RF Signal generator (AM, FM).
2. IF sweep generator (Centered 455 kHz/468 kHz for AM and 10.7 MHz for FM).
3. Loop antenna
4. Capacitor 8pF

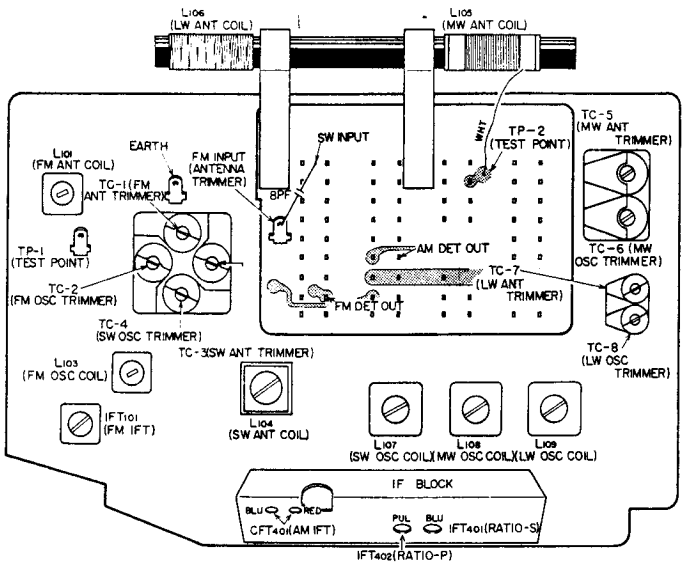
Output Indicator

1. V.T.V.M.
2. Oscilloscope

Regulator Adjusting Steps

For band	For stages on each band
1. AM (MW)	1st: IF 2nd: RF frequency range 3rd: RF tracking
2. SW	1st: RF frequency range 2nd: RF tracking
3. LW	1st: RF frequency range 2nd: RF tracking
4. FM	1st: IF 2nd: RF frequency range 3rd: RF tracking

■ Locations of Main Parts



AM-IF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial to	Adjust	Adjust for
1	AM IF sweep gen. / Test point TP-2	Sweep centered 455 kHz EE model 468 kHz UK model	Oscilloscope / AM det. output tab	Min. Freq.	CFT 401	Maximum

MW-RF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial to	Adjust	Adjust for
1	AM signal gen. / Loop antenna	MW 515 kHz (Modulated)	V.T.V.M. / AM det. output tab	515 kHz (Low end)	L108 (OSC coil)	Maximum
2	Loop antenna	1650 kHz (Modulated)	AM det. output tab	1650 kHz (High end)	TC-6 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Loop antenna	600 kHz (Modulated)	AM det. output tab	600 kHz	L105 (ANT coil)	Maximum
5	Loop antenna	1400 kHz (Modulated)	AM det. output tab	1400 kHz	TC-5 (ANT trim.)	Maximum
6	(Repeat steps 4 and 5 minimize tracking error, and also step 3 if necessary.)					

SW-RF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial	Adjust	Adjust for
1	AM signal gen. / Antenna terminal	SW 5.8 MHz (Modulated)	V.T.V.M. / AM det. output tab	5.8 MHz (Low end)	L107 (OSC coil)	Maximum
2	Antenna terminal	18.5 MHz (Modulated)	AM det. output tab	18.5 MHz (High end)	TC-4 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	5.8 MHz (Modulated)	AM det. output tab	5.8 MHz	L104 (ANT coil)	Maximum
5	Antenna terminal	18.5 MHz (Modulated)	AM det. output tab	18.5 MHz	TC-3 (ANT trim)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and also step 3 if necessary.)					

LW-RF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial to	Adjust	Adjust for
1	AM signal gen. / Loop antenna	LW 145 kHz (Modulated)	V.T.V.M. / AM det. output tab	145 kHz (Low end)	L109 (OSC coil)	Maximum
2	Loop antenna	310 kHz (Modulated)	AM det. output tab	310 kHz (High end)	TC-8 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Loop antenna	145 kHz (Modulated)	AM det. output tab	145 kHz	L106 (ANT coil)	Maximum
5	Loop antenna	310 kHz (Modulated)	AM det. output tab	310 kHz	TC-7 (ANT trim.)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and also step 3 if necessary.)					

FM-RF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial to	Adjust	Adjust for
1	FM signal gen. / Antenna terminal	88 MHz (Modulated)	V.T.V.M. / FM det output tab	88 MHz	L103 (OSC coil)	Maximum
2	Antenna terminal	107 MHz (Modulated)	FM det. output tab	107 MHz	TC-2 (OSC trim.)	Maximum
3	(Repeat steps 1 and 2 to obtain frequency range.)					
4	Antenna terminal	88 MHz (Modulated)	FM det. output tab	88 MHz	L101 (ANT coil)	Maximum
5	Antenna terminal	107 MHz (Modulated)	FM det. output tab	107 MHz	TC-1 (ANT trim.)	Maximum
6	(Repeat steps 4 and 5 to minimize tracking error, and step 3 if necessary.)					

FM-IF Alignment

Step	Signal source / Connect to	Set signal to	Alignment indicator / Connect to	Set radio dial to	Adjust	Adjust for
1	FM IF sweep gen. / Test point TP-1	Sweep centered 10.7 MHz	Oscilloscope / FM det. output tab	Max. Freq.	IFT101 IFT402	Max. Symmetrical response. equal heights
2	Test point TP-1	Sweep centered 10.7 MHz	FM det. output tab	Max. Freq.	IFT401	Symmetrical response. centered 10.7 MHz
3	(Repeat 1 and 2 to obtain a balanced "S" curve linearity.)					

How to change the upper limit of FM frequency range from 108 MHz to 104 MHz.

Symbol No.	Description	108 MHz		104 MHz	
L103	FM Coil	1-½t	87-006-015-01	1-¼t	87-006-036-01
C110	Ceramic capacitor	13pF	88-212-130-01	20pF	88-213-200-01

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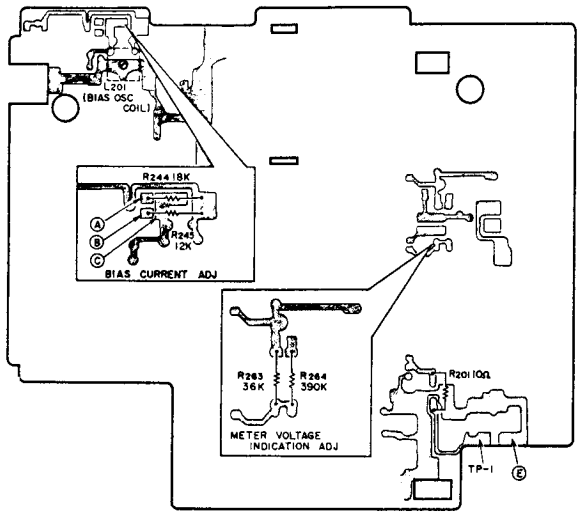
TAPE RECORDER SECTION

■ Locations of Main Parts

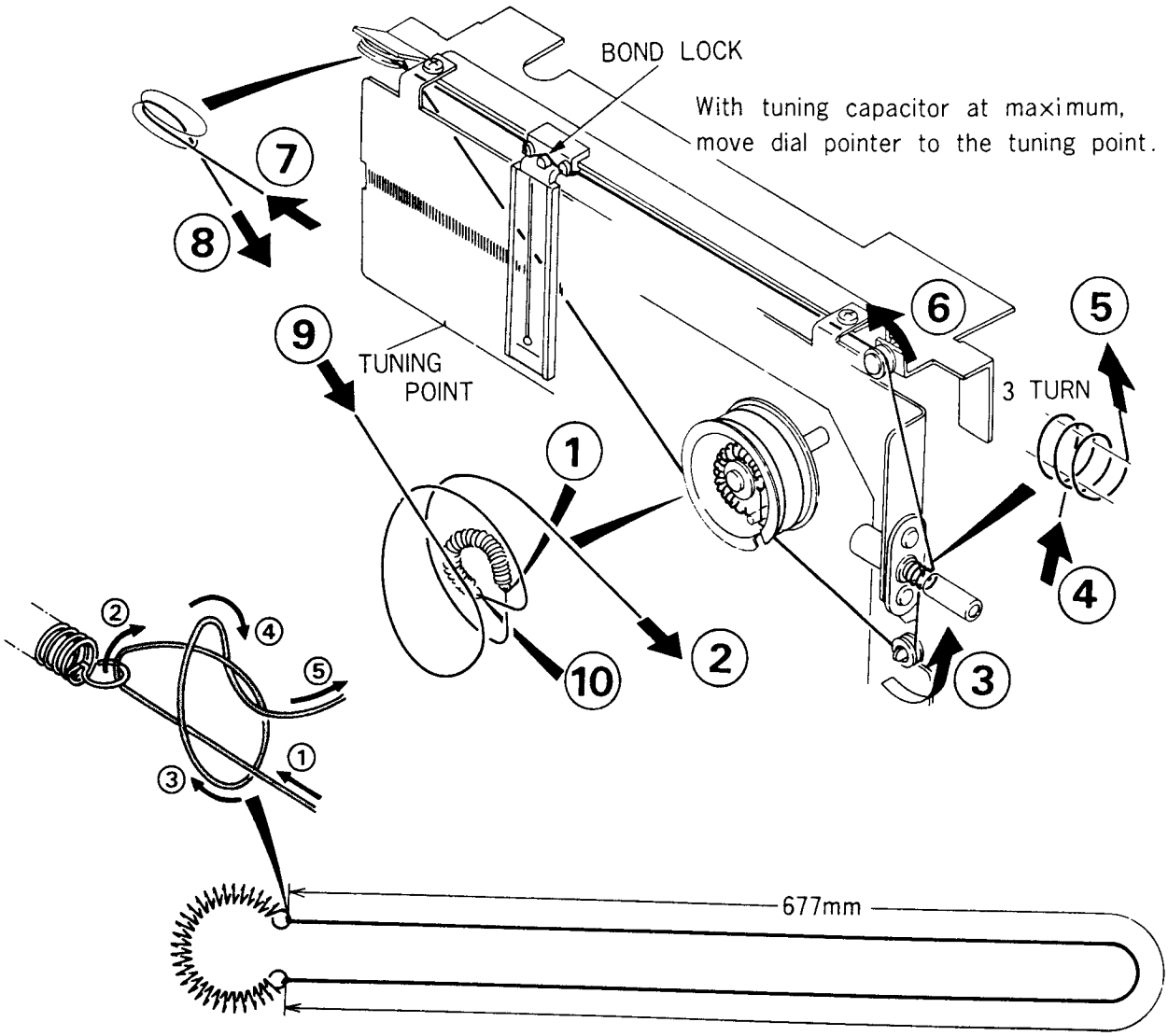


Meter Voltage Indication Adjustment

(1) Adjust stabilized DC power supply for 4.5V and apply to the battery terminals of the set.
(2) Adjust voltage indication resistor R264 390kΩ for an indication within the red and yellow limits inside the meter. Adjust so that meter indication increases when R264 pattern is shorted.

Adjustment Item	Test Point	Adjustment Location	Specification
Azimuth	EXT. SP jack	Head azimuth screw	Test tape TTA-117D
Bias OSC Frequency	TP-1 (R201)	L201	OSC switch Center position: 52 kHz "•" position: 51.5 kHz "••" position: 53 kHz
Bias Current	TP-1 (R201)	Adjust with bias current adjusting resistors (R244 18kΩ and R245 12kΩ). Perform adjustment by connecting circuit patterns A and B to pattern C in order to reduce bias current.	625μA ± 25μA (6.25mV ± 0.25μV)

DIAL CORD STRINGING



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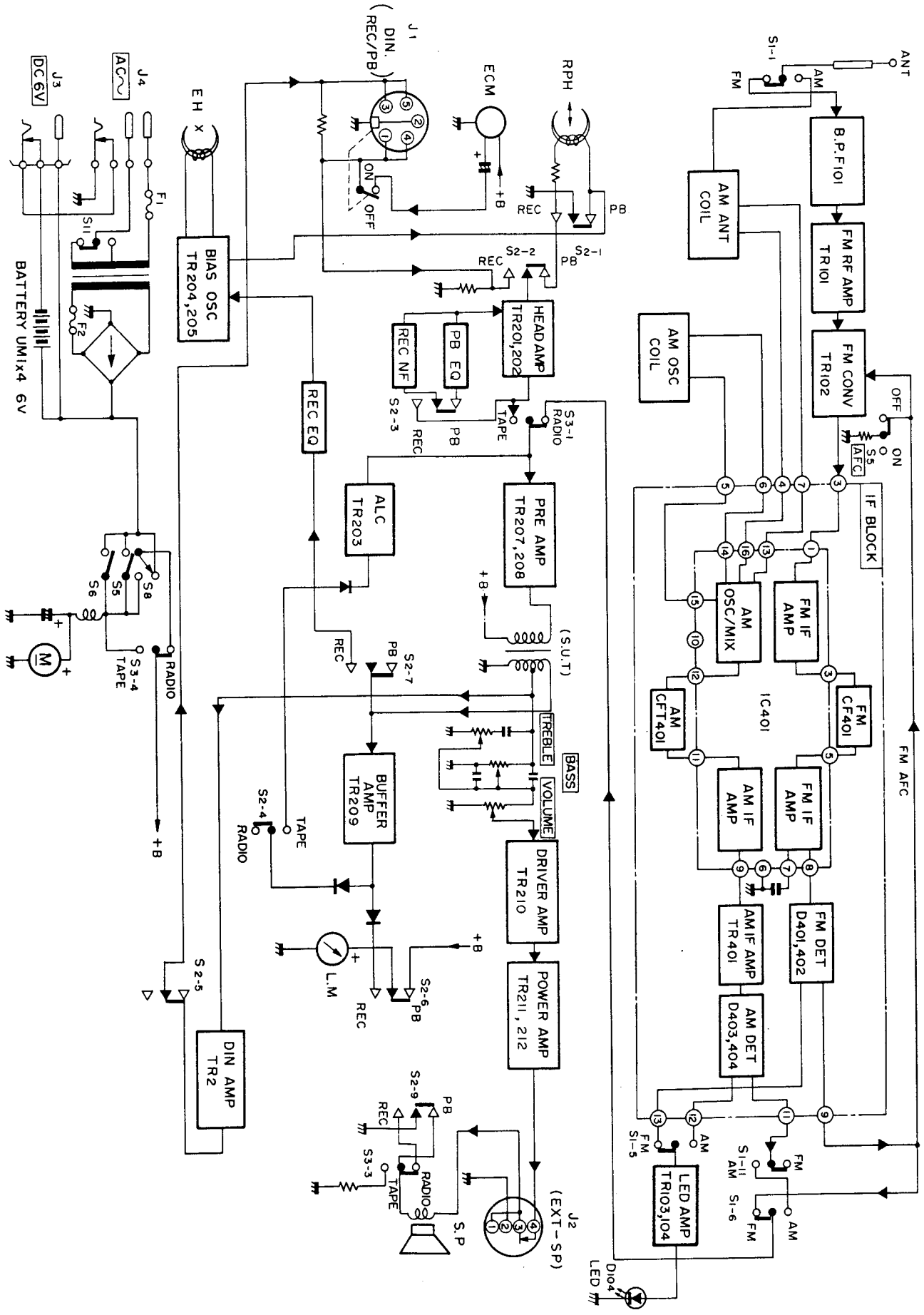
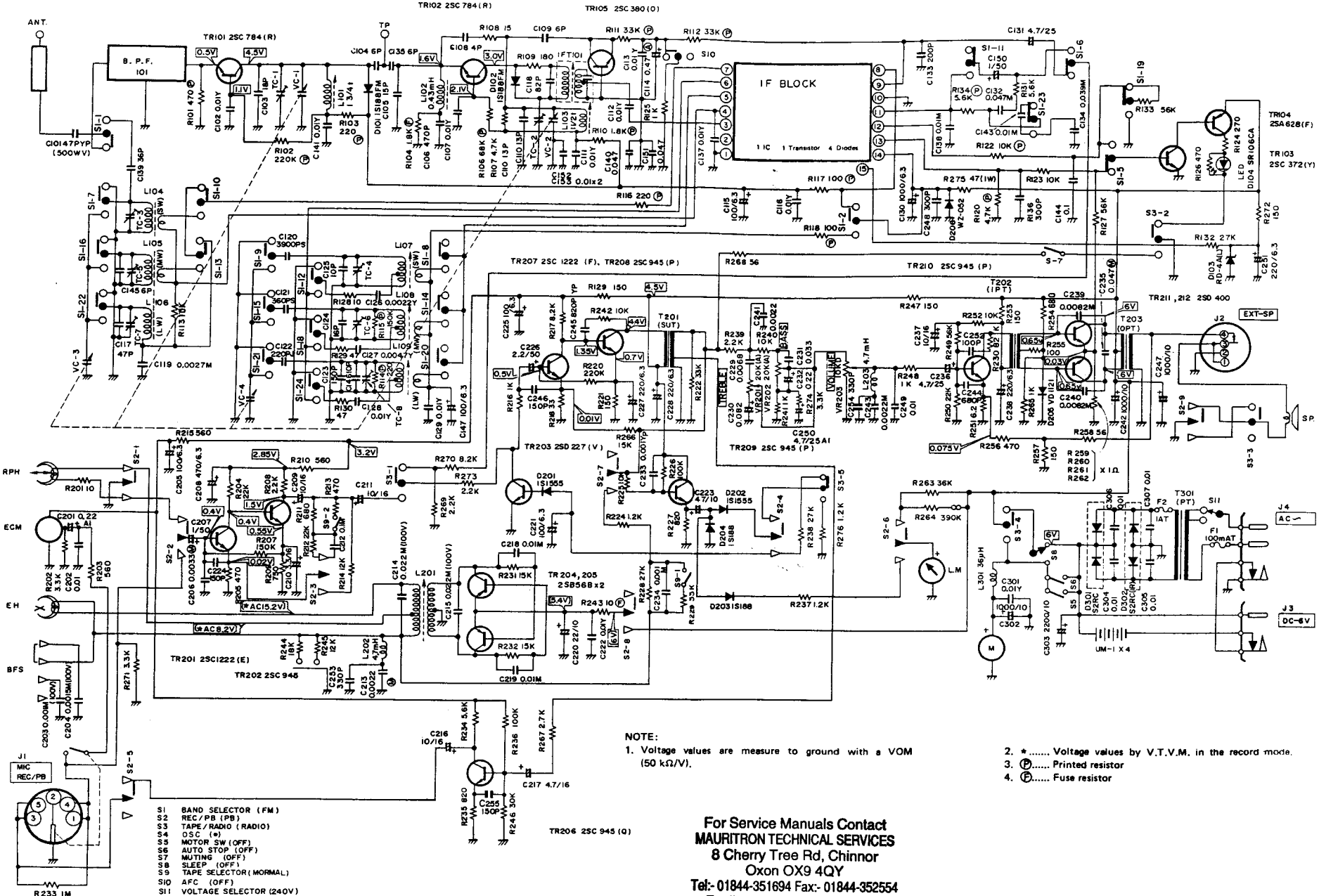
BLOCK DIAGRAM



SCHEMATIC DIAGRAM



NOTE:

1. Voltage values are measure to ground with a VOM (50 kΩ/V).
2. ★..... Voltage values by V.T.V.M. in the record mode.
3. Ⓟ..... Printed resistor
4. Ⓕ..... Fuse resistor

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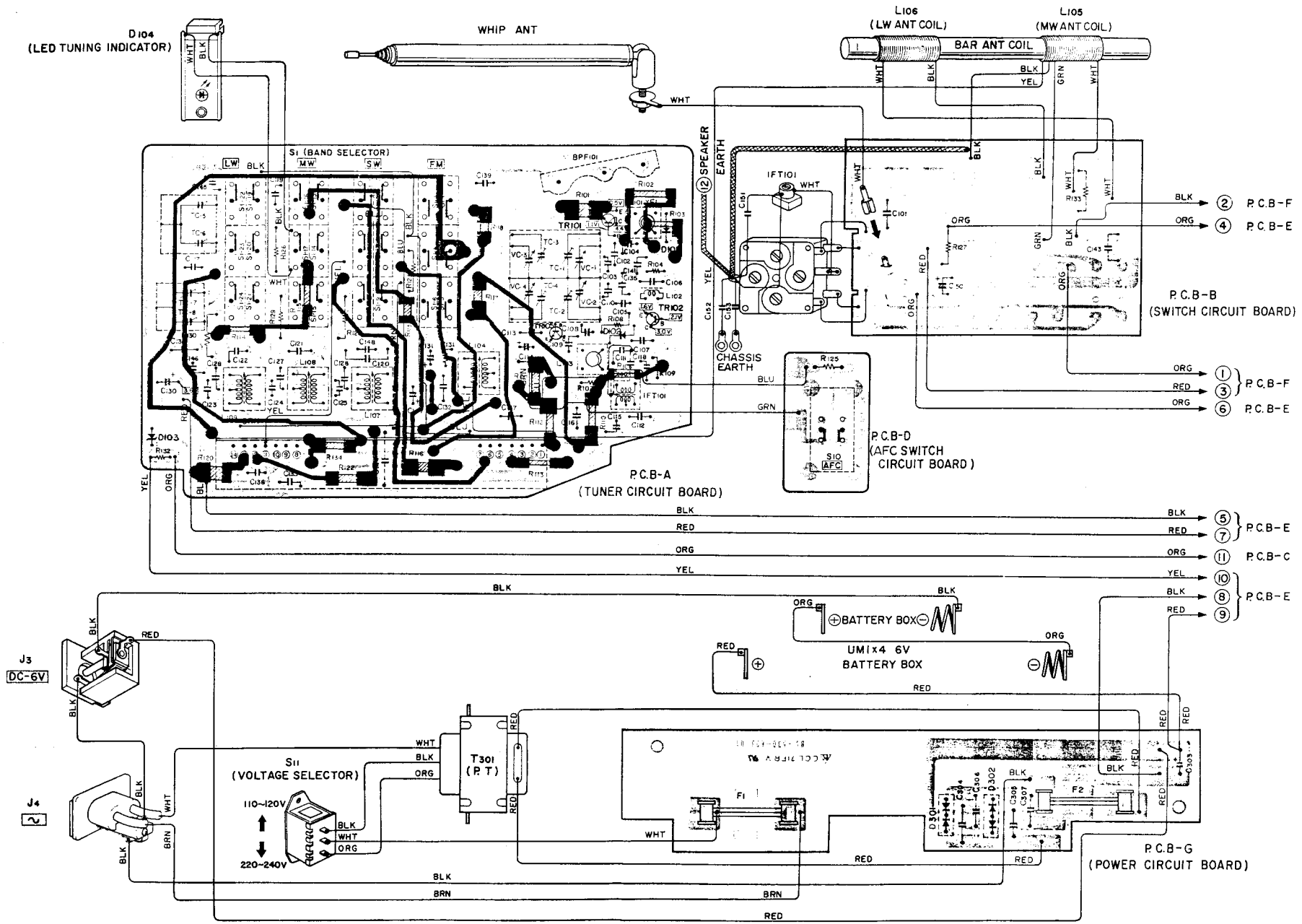
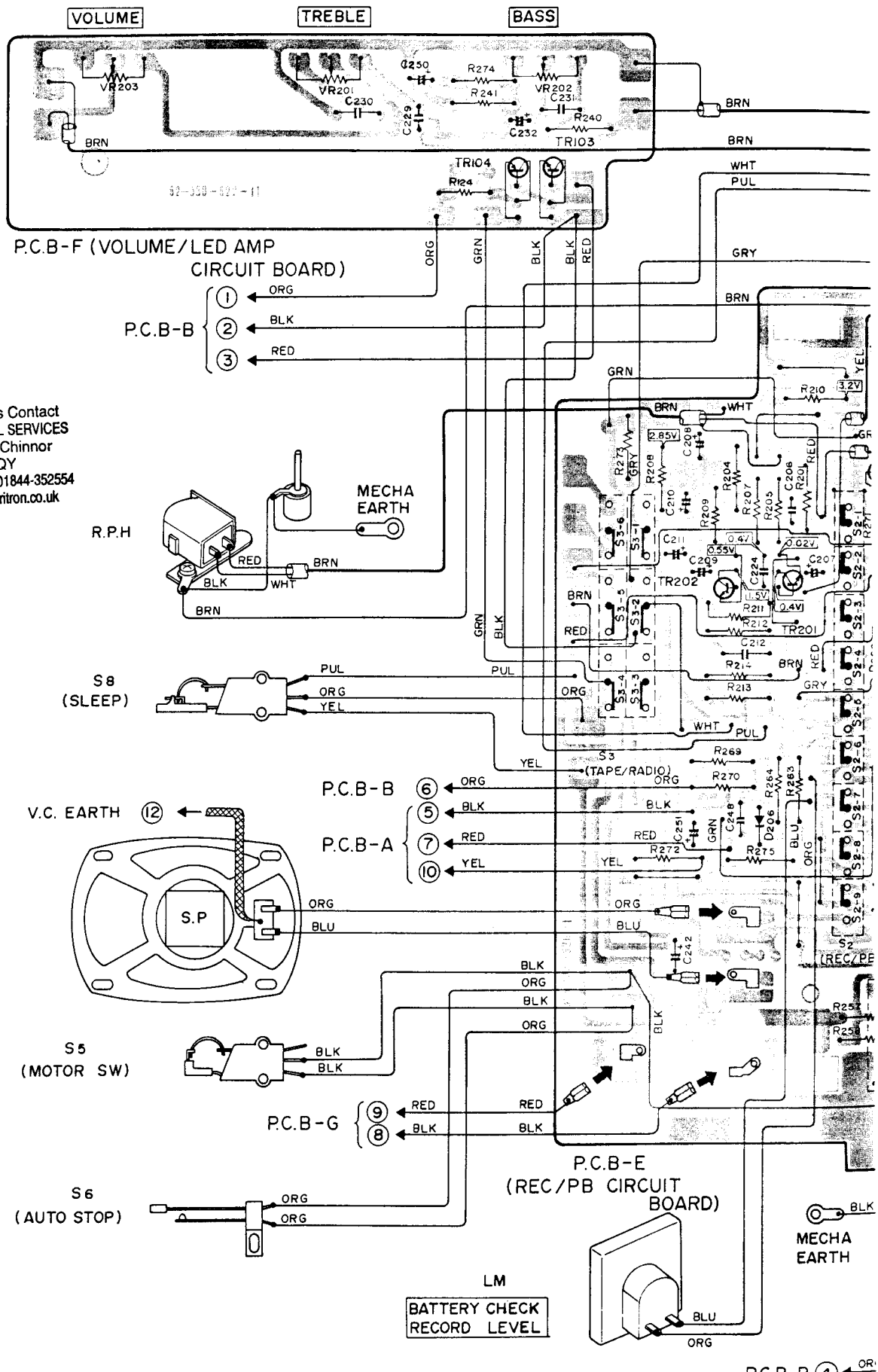
WIRING 1


D104
(LED TUNING INDICATOR)
WHIP ANT
L106
(LW ANT COIL)
L105
(MW ANT COIL)
BAR ANT COIL
S1 (BAND SELECTOR)
LW
MW
SW
FM
BPF101
IFT101
TRIO1
TRIO2
SPEAKER
EARTH
CHASSIS
EARTH
P.C.B-A
(TUNER CIRCUIT BOARD)
P.C.B-B
(SWITCH CIRCUIT BOARD)
P.C.B-D
(AFC SWITCH
CIRCUIT BOARD)
S10
AFC
P.C.B-F
P.C.B-E
P.C.B-C
J3
DC-6V
J4
BATTERY BOX
UM1x4 6V
BATTERY BOX
S11
(VOLTAGE SELECTOR)
110~120V
220~240V
T301
(P.T)
F1
F2
P.C.B-G
(POWER CIRCUIT BOARD)

WIRING–2



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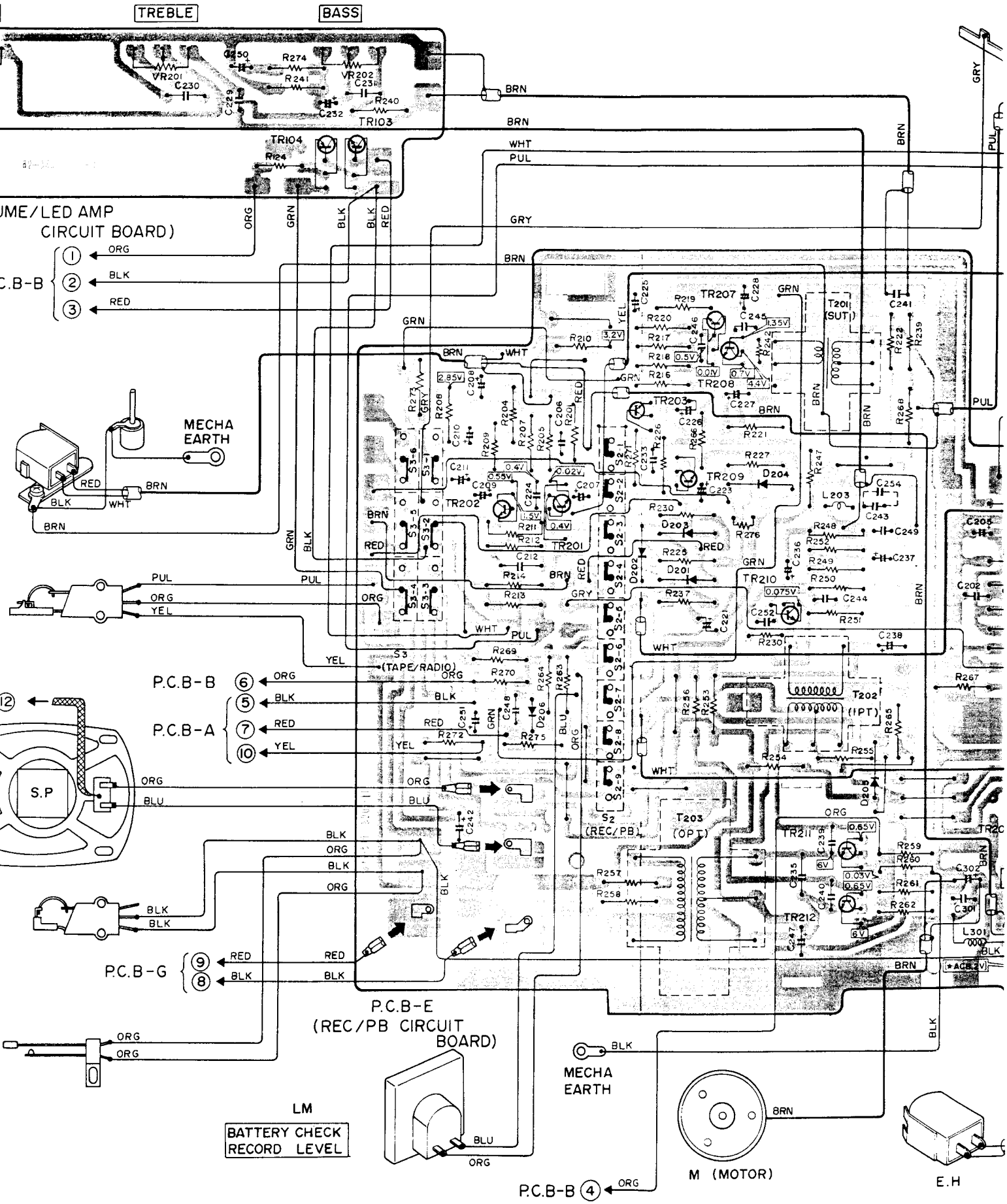
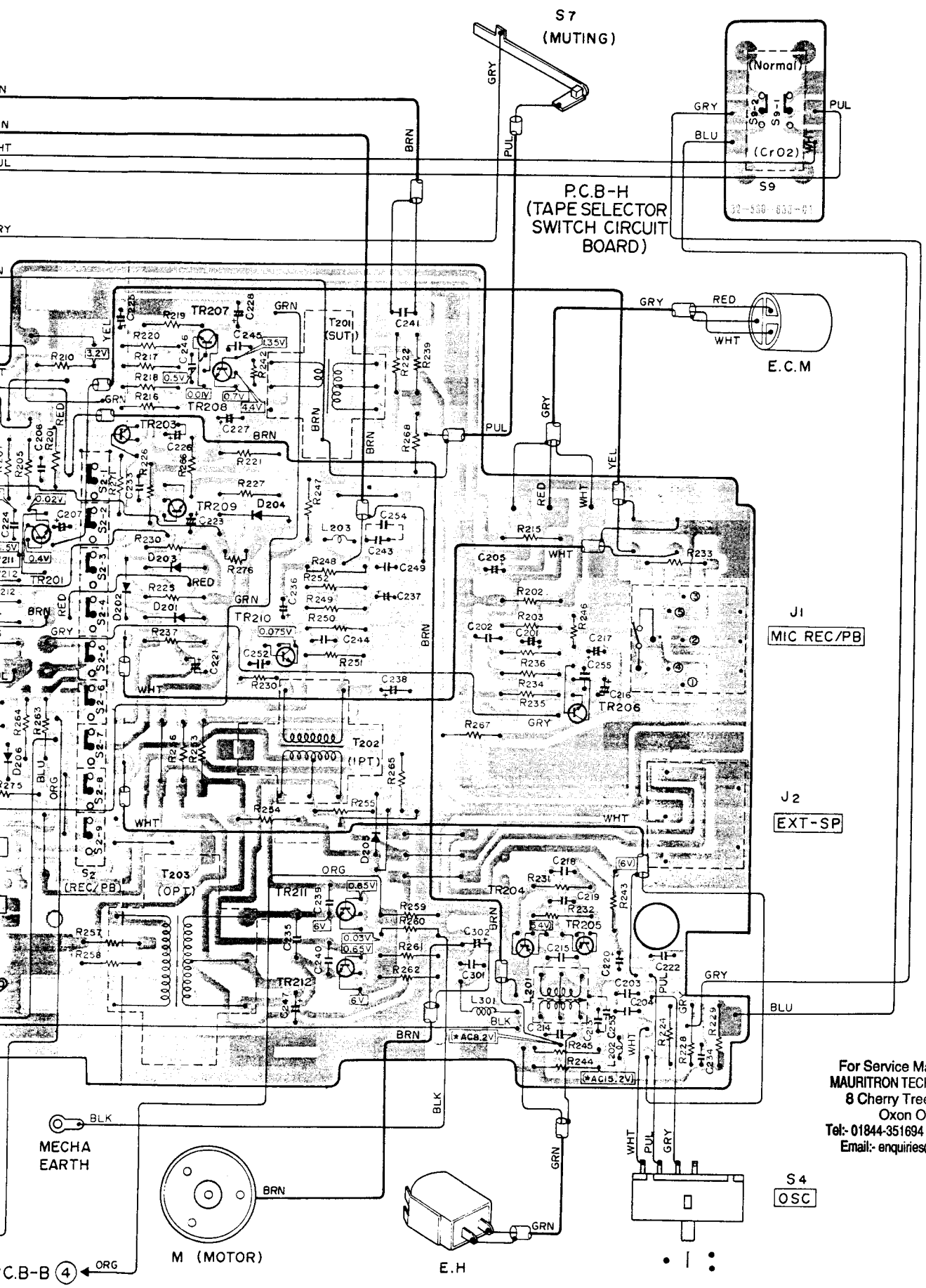

TREBLE
BASS
VR201
VR202
R274
R241
C230
C231
C232
R240
TR103
TR104
R124
BRN
WHT
PUL
GRY
ORG
GRN
BLK
RED
UME/LED AMP
CIRCUIT BOARD)
P.C.B-B
MECHA
EARTH
TR207
TR208
TR203
TR209
TR202
TR201
TR210
TR211
TR212
T201
(SUT)
T202
(IPT)
T203
(OPT)
S2
(REC/PB)
S3
(TAPE/RADIO)
D204
D203
D202
D201
L203
P.C.B-A
P.C.B-G
S.P
P.C.B-E
(REC/PB CIRCUIT
BOARD)
LM
BATTERY CHECK
RECORD LEVEL
BLU
M (MOTOR)
E.H
P.C.B-B ④



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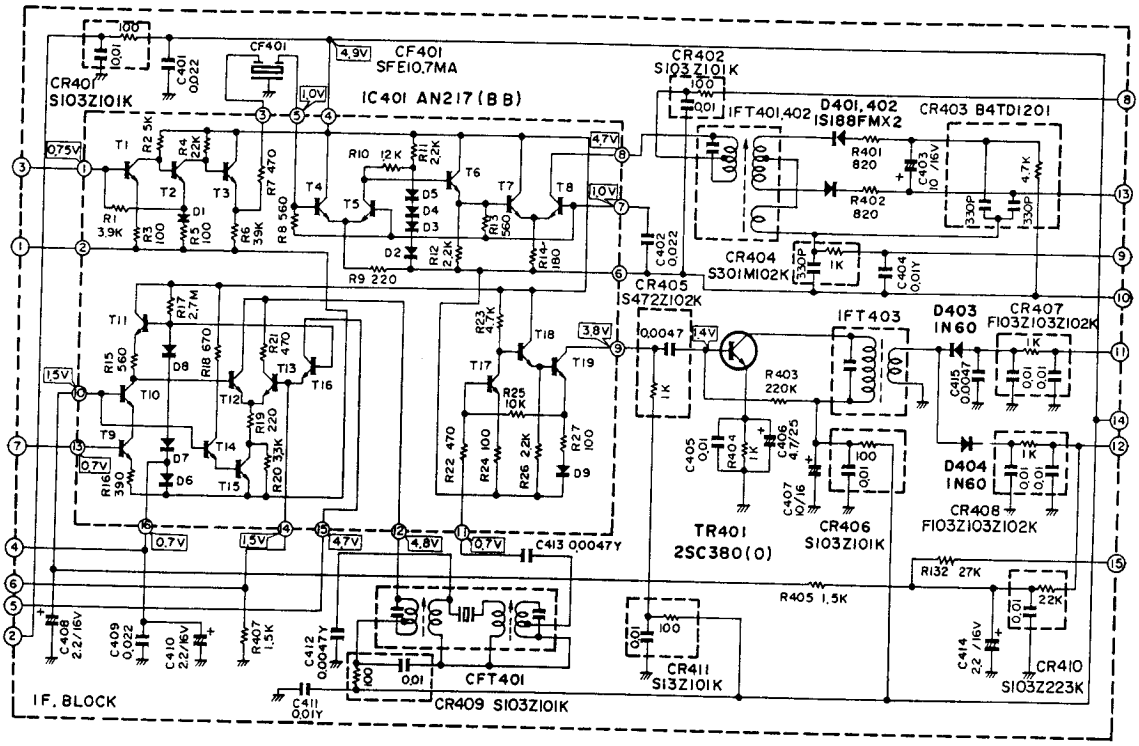
SCHEMATIC DIAGRAM, IF BLOCK



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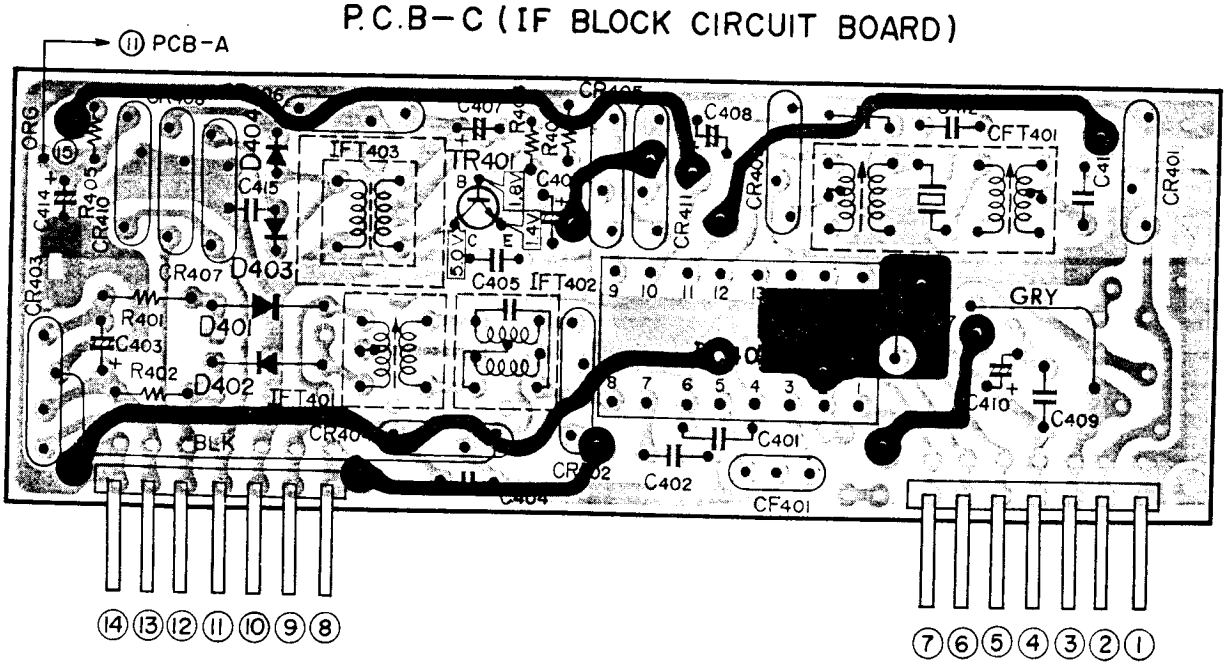
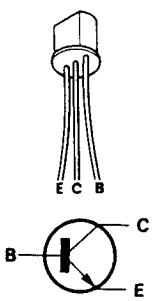
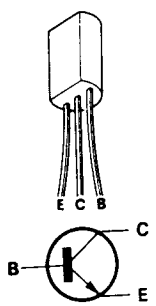
IF BLOCK CIRCUIT BOARD

P.C.B-C (IF BLOCK CIRCUIT BOARD)

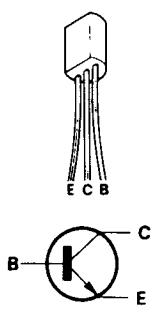




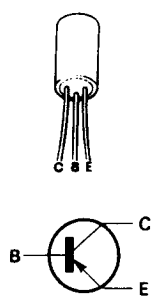
2SC784
2SC380
2SC733



2SD400



2SD227
2SC945
2SC1222



2SB56

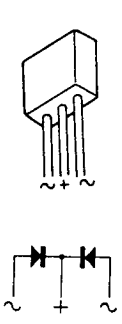
1N60
1S188

M8513
1S1555

IS553

VD112

WZ052



S2RC10

S2RC10R

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ **MEMO** ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆

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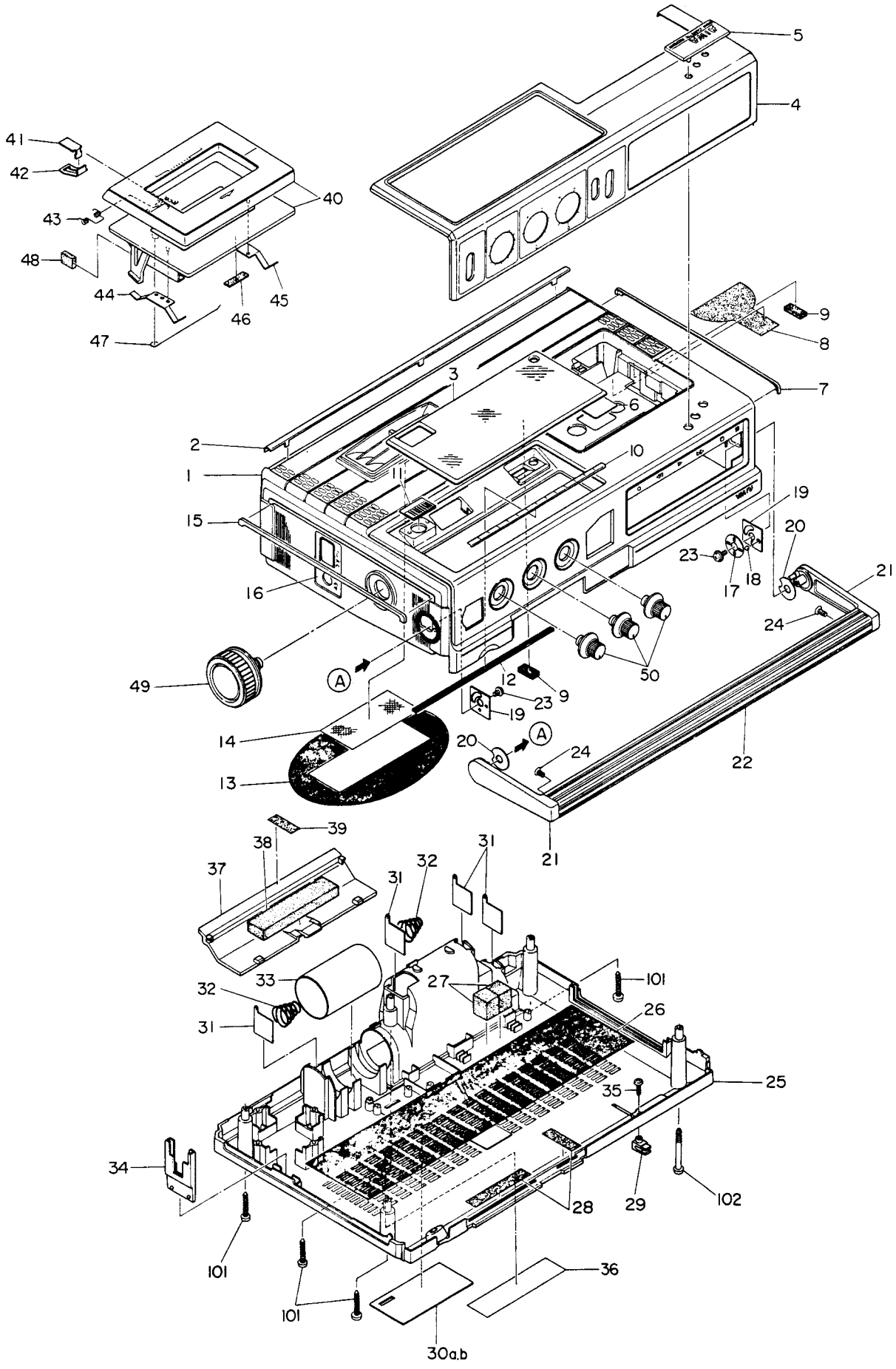
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

EXPLODED VIEW–1



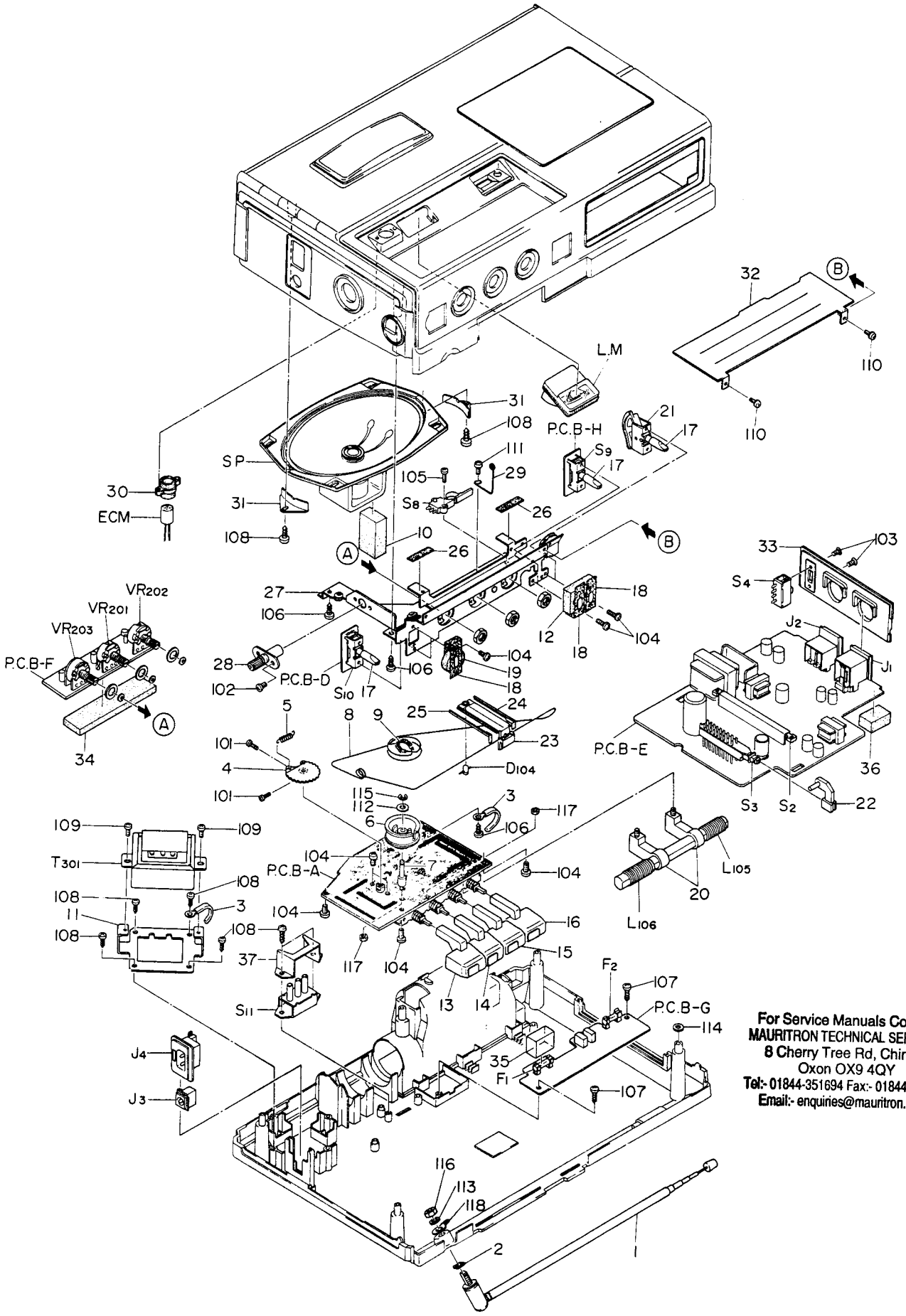
PARTS LIST

MECHANICAL PARTS

■ * mark in this part list shows exclusive part (which is used) for only Model TPR-216.

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1~39	80-005-300-41		Cabinet Assembly – "EE" model (Main case ass'y + Back cover ass'y + Battery room lid ass'y)		
1~39	80-005-300-01		Cabinet Assembly – "UK" model (Main case ass'y + Back cover ass'y + Battery room lid ass'y)		
1~24	80-005-301-41		Main case ass'y		
1-1	82-530-033-01		Case proper	*	1
1-2	82-442-015-01		Decorative plate, Case proper	TPR-215	1
1-3	82-442-006-01		Window, Tuning dial	TPR-215	1
1-4	82-530-019-01		Panel, Top	*	1
1-5	82-530-004-01		Name plate, AIWA	*	1
1-6	82-386-033-01		Label, Tape indication	TPR-216	1
1-7	82-530-006-01		Panel, Side L	*	1
1-8	82-530-030-01		Himeron cloth	*	2
1-9	82-530-225-01		S cushion	*	2
1-10	82-530-031-01		Name plate, Dial window	*	1
1-11	82-530-015-01		Grille, ECM	*	1
1-12	82-442-212-01		Rubber sheet	TPR-215	1
1-13	82-530-027-01		Dust screen cloth, Speaker	*	1
1-14	82-530-024-01		Net, Speaker	*	1
1-15	82-530-005-01		Panel, Side R	*	1
1-16	82-530-050-01		Name plate, Jack	*	1
1-17	82-429-257-01		Click washer	TPR-107	1
1-18	87-073-006-01		Steel ball 3ϕ		1
1-19	82-429-225-01		Click plate	TPR-107	2
1-20	82-428-365-01		Poly-slider washer 6ϕ		2
1-21	82-429-014-01		Metal fitting, Carrying handle	TPR-107	2
1-22	82-442-036-01		Carrying handle	TPR-215	1
1-23	87-490-094-01		VWS + 3-6		2
1-24	87-233-095-01		Q + 3-8		2
25~36	80-005-302-41		Back cover ass'y (EE model only)		
25~36	80-005-302-01		Back cover ass'y (UK model only)		
1-25	82-530-002-01		Back cover	*	1
1-26	82-439-030-01		Himeron cloth, Back cover	TPR-300	1
1-27	82-445-256-01		Cushion, Circuit board	TPR-250	2
1-28	87-063-096-01		H cushion 13		2
1-29	82-440-038-01		Holder, Antenna		1
1-30a	82-530-037-01		Name plate, Spec. (EE model only)	*	1
1-30b	82-530-040-01		Name plate, Spec. (UK model only)	*	2
1-31	87-038-032-01		Terminal plate, Battery		4
1-32	81-480-050-01		Spring, Battery		2
1-33	82-432-214-01		Pipe, Battery	TPR-212	1
1-34	82-432-215-01		Holder, Jack	TPR-212	1
1-35	87-341-074-01		UT_1 + 2.6-8		1
1-36	87-056-010-01		Label, Mains instruction		1
37~39	80-005-303-41		Battery room lid ass'y		
1-37	82-432-037-01		Battery room lid	TPR-212	1
1-38	82-432-224-01		Cushion, Battery room lid	TPR-212	1
1-39	82-422-236-01		Himeron cloth, Battery room lid	TPR-203	1
40~48	80-005-307-41		Cassette lid ass'y		
1-40	82-530-030-01		Cassette lid	*	1
1-41	82-429-260-01		Slide plate, Cassette lid	TPR-107	1
1-42	82-429-261-01		Plate spring A, Cassette lid	TPR-107	1
1-43	82-422-241-01		Spring, Cassette lid	TPR-203	1
1-44	82-432-239-01		Plate spring R, Cassette lid	TPR-212	1
1-45	82-432-238-01		Plate spring L, Cassette lid	TPR-212	1
1-46	82-422-236-01		Himeron cloth, Cassette lid	TPR-203	1
1-47	82-445-257-01		Spring, T	TPR-250	1
1-48	82-370-361-01		Cushion rubber		½
1-49	82-443-073-01		Tuning knob ass'y	TPR-206	1
1-50	82-530-025-01		Volume knob	*	3

EXPLODED VIEW–2



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Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
2-1	82-442-064-01		Antenna, Whip	TPR-215	1	
2-2	82-429-227-01		Washer, Antenna	TPR-107	1	
2-3	87-038-039-01		Wire binder		2	
2-4	81-493-224-01		Gear ass'y		1	
2-5	82-442-210-01		Spring, Gear	TPR-215	1	
2-6	82-442-211-01		Drum , Dial	TPR-215	1	
2-7	82-442-207-11		Shaft, Drum	TPR-215	1	
2-8	87-096-045-01		String, Dial		682 mm	
2-9	82-442-215-01		Spring, Drum	TPR-215	1	
2-10	82-412-341-01		G cushion B		1	
2-11	82-442-220-01		Holder, Power transformer	TPR-215	1	
2-12	82-530-224-01		M cushion	*	1	
2-13	82-442-010-01		Button A	TPR-215	1	
2-14	82-442-011-01		Button B	TPR-215	1	
2-15	82-442-012-01		Button C	TPR-215	1	
2-16	82-442-013-01		Button D	TPR-215	1	
2-17	82-442-050-01		Knob	TPR-215	3	
2-18	82-530-051-01		Himeron cloth, Switch	*	3	
2-19	82-458-299-01		Cushion		1	
2-20	82-428-276-01		Holder, Antenna		2	
2-21	82-530-207-01		R-T lever ass'y	*	1	
2-22	82-530-203-01		R-T switch lever	*	1	
2-23	82-442-022-01		Pointer, Dial	TPR-215	1	
2-24	82-442-049-01		Decorative plate L, Pointer	TPR-215	1	
2-25	82-442-048-01		Decorative plate R, Pointer	TPR-215	1	
2-26	82-442-236-01		Himeron cloth,	TPR-215	1	
2-27	82-530-216-01		Radio chassis ass'y	*	1	
2-28	82-530-219-01		Shaft, Tuning	*	1	
2-29	82-442-209-01		Spring, Wire guide	TPR-215	1	
2-30	87-064-063-01		Holder, ECM		1	
2-31	82-401-228-01		Metal fitting, Speaker		1	
2-32	82-530-035-01		Board, Dial	*	1	
2-33	82-530-043-01		Board, Jack	*	1	
2-34	82-530-224-01		M cushion	*	1	
2-35	82-435-212-01		Cover, Fuse	TPR-100	1	
2-36	82-421-261-01		Cushion, Circuit board		1	
2-37	82-442-219-01		Cover, Voltage selector	TPR-215	1	

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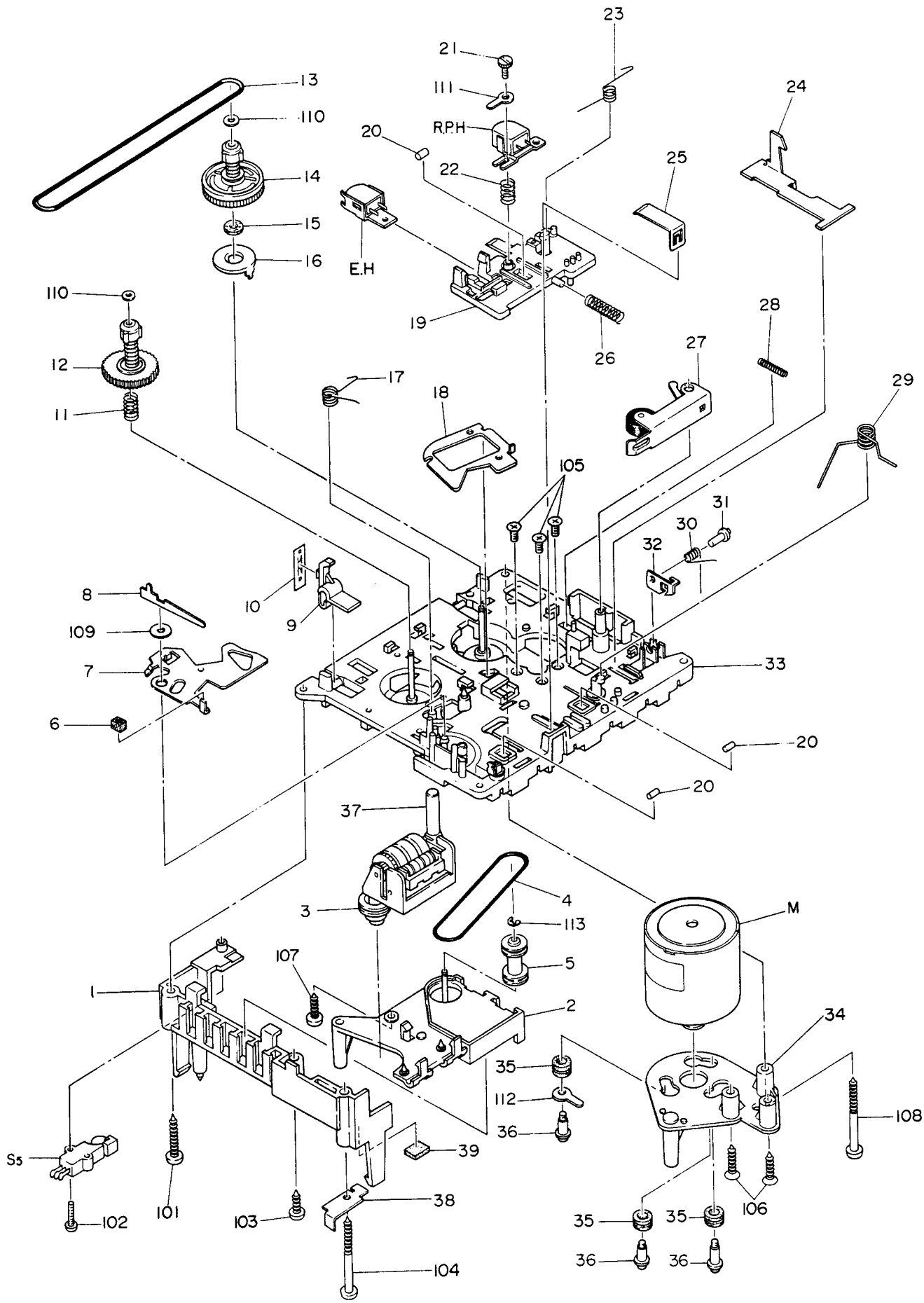
EXPLODED VIEW–3



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
3-1	82-443-230-01		Sub-chassis	TPR-206	1	
3-2	82-530-202-01		Holder, Counter	*	1	
3-3	87-040-063-01		Counter		1	
3-4	82-530-210-01		Belt, Counter	*	1	
3-5	82-422-230-01		Pulley, Relay	TPR-203	1	
3-6	82-439-302-01		Pad, Switch	TPR-300	1	
3-7	82-439-235-01		REC lock lever	TPR-300	1	
3-8	82-439-604-01		Leaf switch	TPR-300	1	
3-9	82-439-261-01		Record-blocking lever	TPR-300	1	
3-10	82-439-262-01		Plate spring, Record-blocking lever	TPR-300	1	
3-11	82-439-380-01		Spring, Back tension	TPR-300	1	
3-12	82-439-216-01		Supply reel platform ass'y	TPR-300	1	
3-13	82-439-330-01		Belt, Relay	TPR-300	1	
3-14	82-439-208-01		Take-up reel platform ass'y	TPR-300	1	
3-15	82-439-367-01		Felt, 75ϕ	TPR-300	1	
3-16	82-439-358-01		Slip disk	TPR-300	1	
3-17	82-439-289-01		Spring, Rec. lock lever	TPR-300	1	
3-18	82-476-232-01		Review lever B	TPR-300	1	
3-19	82-439-205-01		Moving chassis	TPR-300	1	
3-20	82-439-297-01		Roller, 3ϕ	TPR-300	3	
3-21	82-439-373-21		Shaft, Head adjusting	TPR-300	1	
3-22	82-385-332-01		Spring, Head adjusting	AD-6300	1	
3-23	82-439-285-01		Spring, Pinch lever	TPR-300	1	
3-24	82-443-209-01		Cassette lock lever	TPR-206	1	
3-25	82-439-206-01		Plate spring, Moving chassis	TPR-300	1	
3-26	82-439-281-01		Spring, Moving chassis	TPR-300	1	
3-27	82-439-364-01		Pinch lever ass'y	TPR-300	1	
3-28	82-439-278-01		Spring, Cassette lock	TPR-300	1	
3-29	82-439-277-01		Spring, Play lever	TPR-300	1	
3-30	82-439-275-01		Spring, Lock plate	TPR-300	1	
3-31	82-439-268-01		Shaft, Lock plate	TPR-300	1	
3-32	82-530-223-01		Lock plate A	*	1	
3-33	09-047-650-00		Chassis ass'y		1	
3-34	82-443-232-01		Holder, Moter	TPR-206	1	
3-35	87-087-029-01		Rubber cushion		3	
3-36	87-081-483-01		M2.6 motor screw		3	
3-37	82-442-021-01		Button, Counter	TPR-215	1	
3-38	82-530-226-01		Holder, R-T switch	*	1	
3-39	82-370-361-01		Rubber cushion		1	

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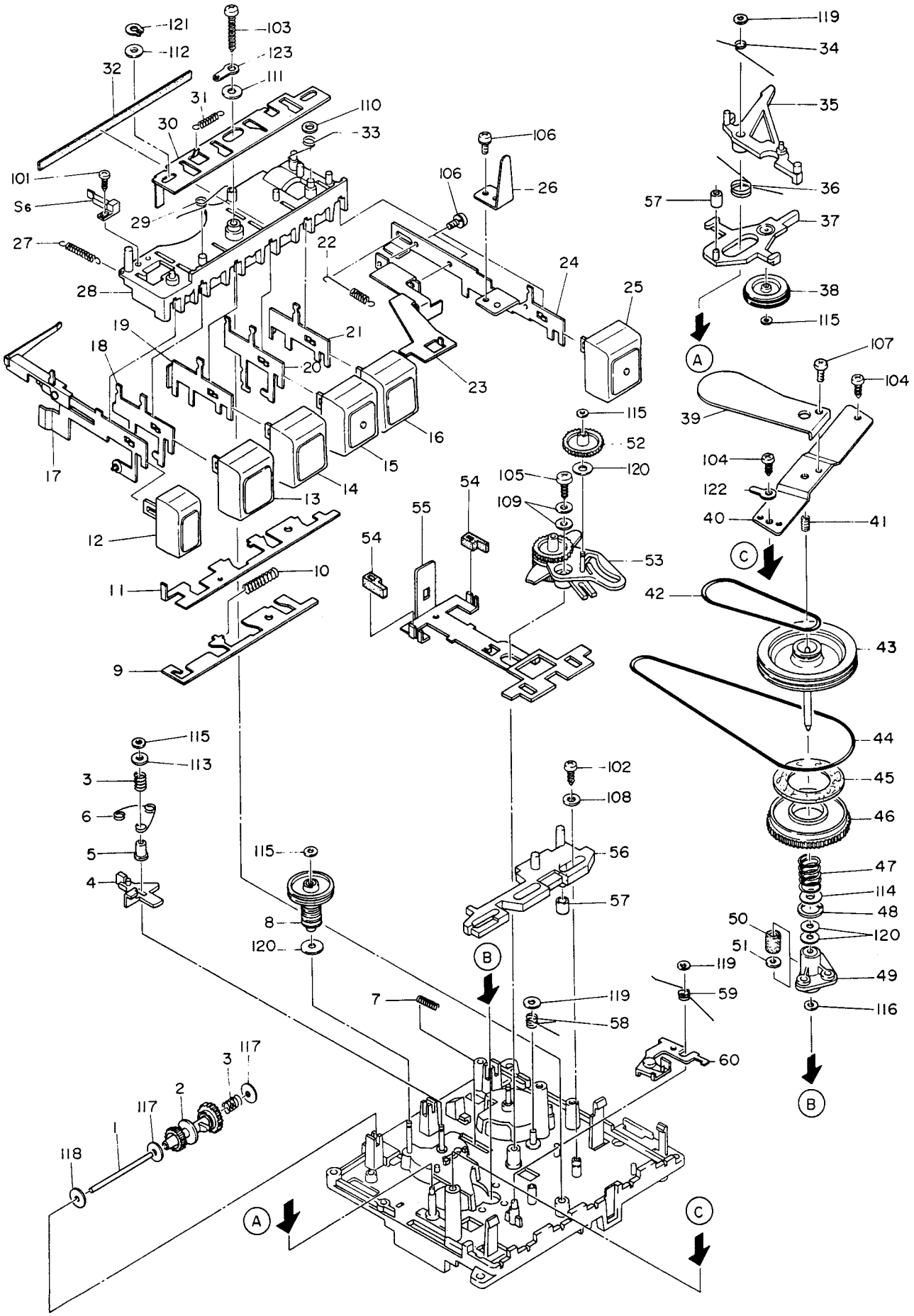
EXPLODED VIEW–4



Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
4-1	82-439-300-01		Shaft, Worm wheel	TPR-300	1	
4-2	82-439-408-01		Worm wheel L ass'y	TPR-206	1	
4-3	82-439-369-01		Spring, Slip	TPR-300	2	
4-4	82-439-439-01		Slider N	TPR-300	1	
4-5	82-439-368-01		Bushing	TPR-300	1	
4-6	82-439-288-01		Spring, Slider	TPR-300	1	
4-7	82-439-371-01		Spring, Brake	TPR-300	1	
4-8	82-439-403-01		Worm gear ass'y	TPR-206	1	
4-9	82-439-375-01		Slide plate B	TPR-300	1	
4-10	82-439-284-01		Spring, Slide plate	TPR-300	1	
4-11	82-439-233-01		Slide plate A	TPR-300	1	
4-12	82-530-012-01		Button, PAUSE	*	1	
4-13	82-530-010-01		Button, STOP	*	1	
4-14	82-530-008-01		Button, FF	*	1	
4-15	82-530-007-01		Button, FWD	*	1	
4-16	82-530-009-01		Button, REW	*	1	
4-17	82-439-263-01		Pause lever ass'y	TPR-300	1	
4-18	82-439-231-01		Stop lever	TPR-300	1	
4-19	82-439-232-01		FF lever	TPR-300	1	
4-20	82-439-345-01		Play lever	TPR-300	1	
4-21	82-439-230-01		Rewind lever	TPR-300	1	
4-22	82-285-254-01		Spring, Play idler	TP-760	1	
4-23	82-294-214-01		REC lever, One-finger		1	
4-24	82-294-217-01		REC lever		1	
4-25	82-530-011-01		Button, REC	*	1	
4-26	82-530-220-01		Plater spring, REC	TPR-300	1	
4-27	82-439-267-01		Spring, Pause lever	TPR-300	1	
4-28	82-439-432-01		Back plate	TPR-300	1	
4-29	82-439-351-01		Spring, Push-button	TPR-300	1	
4-30	82-294-215-01		REC plate, One-finger		1	
4-31	82-283-289-01		Spring, Play idler		1	
4-32	82-439-331-01		Rubber cushion	TPR-300	1	
4-33	82-294-219-01		Spring, Push-button R		1	
4-34	82-439-287-01		Spring, Kick lever	TPR-300	1	
4-35	82-439-255-01		Kick lever	TPR-300	1	
4-36	82-439-286-01		Spring, Play idler lever	TPR-300	1	
4-37	82-439-259-01		Play idler lever	TPR-300	1	
4-38	82-285-255-01		Play idler ass'y	TP-760	1	
4-39	82-476-620-01		Shield plate, Worm gear	TPR-910	1	
4-40	82-439-405-01		Lower shaft bearing plate	TPR-206		
4-41	82-346-349-01		Shaft, Thrust adjusting		1	
4-42	82-439-412-01		Rubber belt	TPR-206	1	
4-43	82-439-401-01		Flywheel ass'y	TPR-206	1	
4-44	82-443-214-01		Belt , Main	TPR-300	1	
4-45	82-439-389-01		Felt, 24ϕ	TPR-300	1	
4-46	82-439-435-01		Slip gear	TPR-300	1	
4-47	82-439-246-01		Spring, Flywheel	TPR-300	1	
4-48	82-439-354-01		Washer, 13.4ϕ	TPR-300	1	
4-49	82-439-433-01		Shaft bearing ass'y	TPR-300	1	
4-50	82-439-292-01		Drive rubber	TPR-300	1	
4-51	82-439-385-01		Oil stopper	TPR-300	1	
4-52	82-439-356-01		FR gear B	TPR-300	1	
4-53	82-439-218-01		FR lever ass'y	TPR-300	1	
4-54	82-439-426-01		Brake show A	TPR-300	2	
4-55	82-530-222-01		Brake plate	*	1	
4-56	82-439-225-01		FR slide plate	TPR-300	1	
4-57	82-439-226-01		Collar, FR slide plate	TPR-300	2	
4-58	82-439-290-01		Spring, FR slide plate	TPR-300	1	
4-59	82-439-280-01		Spring, Auto-release lever	TPR-300	1	
4-60	82-439-360-01		Auto-release lever ass'y	TPR-300	1	

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Ref. No.	Part No.	Description	Q'ty
1-101	87-081-273-01	VT_1 + 3-25	4

Ref. No.	Part No.	Description	Q'ty
1-102	87-352-105-01	VT_2 + 3-35	1

Ref. No.	Part No.	Description	Q'ty
2-101	87-263-033-01	V + 2-4	2
2-102	87-263-092-11	V + 3-4	2
2-103	87-227-033-01	P + 2-4	2
2-104	87-253-071-01	U + 2.6-4	11
2-105	87-253-036-01	U + 2-8	1
2-106	87-351-097-01	VT_1 + 3-12	3
2-107	87-341-073-01	UT_1 + 2.6-8	2
2-108	87-341-095-01	UT_1 + 3-8	8
2-109	87-081-481-01	VTT + 3-5	2

Ref. No.	Part No.	Description	Q'ty
2-110	87-480-033-01	VS + 2-4	2
2-111	87-480-072-01	VS + 2.6-5	1
2-112	87-410-325-01	W4-10-0.8	1
2-113	87-421-309-01	SW-5	1
2-114	87-081-016-01	FW3-8-0.8	1
2-115	87-441-008-01	STE-2.5	1
2-116	87-491-028-01	N-5	1
2-117	87-391-013-01	N-2.6	3
2-118	87-450-418-01	LB-8	1

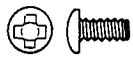
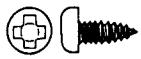
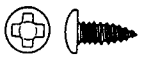
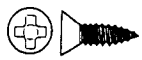
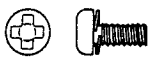
Ref. No.	Part No.	Description	Q'ty
3-101	87-081-273-01	VT_1 + 3-25	1
3-102	87-341-037-01	UT_1 + 2-10	1
3-103	87-341-096-01	UT_1 + 3-10	1
3-104	87-352-105-01	VT_2 + 3-35	1
3-105	87-327-074-01	QT_2 + 2.6-8	3
3-106	87-321-102-01	QT_1 + 3-20	2
3-107	87-341-099-11	UT_1 + 3-15	1

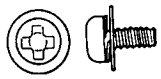
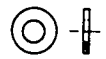
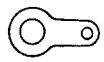
Ref. No.	Part No.	Description	Q'ty
3-108	87-081-495-01	VT_0 + 3-30	1
3-109	87-081-017-01	FW3-8-1	1
3-110	87-081-489-01	PW1.7-3.5-0.25	2
3-111	87-450-411-01	LB-1	1
3-112	87-450-412-01	LB-3	1
3-113	87-441-003-01	STE-1.5	1

Ref. No.	Part No.	Description	Q'ty
4-101	87-351-033-01	VT_1 + 2-4	1
4-102	87-351-035-01	VT_1 + 2-6	1
4-103	87-081-556-01	VT_1 + 3-21	1
4-104	87-341-074-01	UT_1 + 2.6-8	2
4-105	87-353-075-01	VT_2 + 2.6-10	1
4-106	87-480-071-01	VS + 2.6-4	3
4-107	87-081-501-01	VTT + 2.6-4	1
4-108	87-410-305-01	W2-6-0.4	1
4-109	87-410-311-01	W2.6-7.5-0.5	2
4-110	87-410-312-01	W3-6-0.3	1
4-111	87-081-165-01	W3-10-0.5	1
4-112	87-410-314-01	W3-8-0.3	1

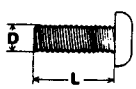
Ref. No.	Part No.	Description	Q'ty
4-113	87-081-030-01	FW2-6-0.5	1
4-114	87-081-494-01	FW14.1-18-1	1
4-115	87-081-489-01	PW1.7-3.5-0.25	4
4-116	87-081-498-01	PW2.1-5-0.13	1
4-117	87-081-492-01	PW2.1-8-0.13	2
4-118	87-416-358-01	PW2.5-6-0.5	1
4-119	87-081-484-01	PW3-6-0.25	3
4-120	87-081-319-01	TW2.3-8-0.2	4
4-121	87-442-003-01	STP-3	1
4-122	87-450-412-01	LB-2	1
4-123	87-450-414-01	LB-4	1

HARDWARE NOMENCLATURE

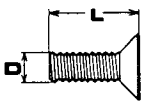
V:	Pan head screw	
U:	Binding head screw	
Q:	Flat countersunk head screw	
VT1:	Pan head tapping screw	
VT2:	Pan head tapping screw	
UT1:	Binding head tapping screw	
QT1:	Flat countersunk head tapping screw	
QT2:	Flat countersunk head tapping screw	
VS:	Pan head screw with spring washer	
VTT:	Pan head tap-tight screw	

VWS:	Pan head tapping screw with spring washer and washer	
P:	Oval countersunk head screw	
W:	Washer	
FW:	Fiber washer	
PW:	Poly-slider washer	
TW:	Tefron washer	
SW:	Spring washer	
STP:	Powerful stop ring	
STE:	E ring	
LB:	Lug terminal plate	
N:	Nut	

Example:



V + 3 – 6
- Length in mm
- Diameter in mm
- Type of Slot
- Type of Head



Q + 3 – 6
- Length in mm
- Diameter in mm
- Type of Slot
- Type of Head

For Service Manuals Contact
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ELECTRICAL PARTS

Symbol No.	Part No.	Description
≪TUNER CIRCUIT BOARD SECTION≫		
PCB-A	82-442-656-21	Tuner circuit board
TR101,102	89-307-842-01	Transistor, 2SC784 (R)
TR105	89-303-803-01	Transistor, 2SC380 (O)
D101,102	88-052-188-11	Diode, 1S188 (FM)
D103	82-442-610-01	Zener diode, RD-4A (L)
L101	87-006-016-01	FM coil, 1¾t
L102	81-245-319-01	FM choke coil, 0.43μH
L103	87-006-015-01	FM coil, 1½t
L104	82-442-605-01	SW antenna coil
L105,106	82-442-604-01	MW, LW bar antenna coil
L107	82-442-608-01	SW OSC coil
L108	82-442-607-01	MW OSC coil
L109	82-442-606-01	LW OSC coil
BPF101	87-030-035-01	FM band pass filter
IFT101	82-442-609-01	FM IFT
VC1~4 TC1~4	82-442-677-01	P,V,C
TC5,6	81-123-374-01	Trimmer, 2T10S
TC7,8	87-011-048-01	Trimmer, 2T16M
S1	87-031-274-01	Push switch (BAND SELECTOR)
		<Resistors>
R108	88-181-150-01	15Ω 1/4W ±5% ELR
R109	88-181-181-01	180Ω 1/4W ±5% ELR
R104	88-181-182-01	1.8kΩ 1/4W ±5% ELR
R107	88-181-472-01	4.7kΩ 1/4W ±5% ELR
R131	88-131-562-01	5.6kΩ 1/4W ±5%
R128	88-134-100-01	10Ω 1/4W ±10%
R129,130	88-134-470-01	47Ω 1/4W ±10%
R126	88-134-471-01	470Ω 1/4W ±10%
R123	88-134-103-01	10kΩ 1/4W ±10%
R132	88-134-273-01	27kΩ 1/4W ±10%
		<Capacitors>
C131	88-336-500-01	4.7μF 25V Electrolytic
C115,147	88-332-120-01	100μF 6.3V Electrolytic
C130	88-332-130-01	1000μF 6.3V Electrolytic
C114	87-015-095-01	0.47μF 6.3V Aluminum solid
C122	88-517-480-01	220pF Styrol
C121	88-617-530-01	360pF Styrol
C120	88-617-710-01	3900pF Styrol
C119	88-717-680-01	0.0027μF Mylar
C138	88-727-810-01	0.01μF Mylar
C134	88-727-870-01	0.039μF Mylar
C132	88-727-850-01	0.047μF Mylar
C140,151	88-205-850-01	0.047μF Ceramic
C125,146	88-212-100-01	10pF Ceramic
C110	88-212-130-01	13pF Ceramic
C105	88-212-150-01	15pF Ceramic
C124	88-212-160-01	16pF Ceramic
C103	88-212-180-01	18pF Ceramic
C139	88-212-260-01	36pF Ceramic
C117	88-212-290-01	47pF Ceramic
C118	88-212-350-01	82pF Ceramic
C123	88-212-450-01	150pF Ceramic
C133	88-212-470-01	200pF Ceramic
C136,148,	88-212-510-01	300pF Ceramic
C106	88-212-550-01	470pF Ceramic
C108	88-213-040-01	4pF Ceramic
C104,109 135,145	88-213-060-01	6pF Ceramic
C126	88-214-660-01	0.0022μF Ceramic
C127	88-214-720-01	0.0047μF Ceramic
C102,107, 111,112, 113,116, 128,129, 137,141	88-214-810-01	0.01μF Ceramic
C144	88-205-910-01	0.1μF Ceramic
C152,153	88-205-810-01	0.01μF Ceramic
≪SWITCH CIRCUIT BOARD SECTION≫		
PCB-B	82-442-657-21	Switch circuit board
		<Resistor>
R133	88-134-563-01	56kΩ 1/4W ±10%
R127	88-131-563-01	56kΩ 1/4W ±5%
		<Capacitors>
C150	88-337-100-01	1μF 50V Electrolytic
C143	88-727-810-01	0.01μF Mylar
C101	88-238-290-01	47pF 500V Ceramic
≪IF BLOCK CIRCUIT BOARD SECTION≫		
PCB-C	87-033-131-11	IF BLOCK circuit board
TR401	89-303-803-01	Transistor, 2SC380 (O)
IC401	87-027-139-01	IC, AN217 (BB)
D401,402	88-052-188-11	Diode, IS188 (FM)
D403,404	88-051-060-01	Diode, 1N60 (FM)
IFT401	87-008-166-01	FM IFT (ratio S)
IFT402	87-008-165-01	FM IFT (ratio P)
IFT403	87-008-164-01	AM IFT
CF401	87-008-153-01	FM ceramic filter, 10.7 MHz (UK model only)
CF401	87-008-169-01	FM Ceramic filter, 10.7 MHz (EE model only)
CFT401	87-008-162-01	AM ceramic filter trans, 455 kHz (EE model only)
CFT401	87-008-150-01	AM ceramic filter trans, 468 kHz (UK model only)
CR401,402, 406,409, 411	87-028-020-01	CR block (S103Z-101K)
CR403	87-028-027-01	CR block (B4TD1201)
CR404	87-028-021-01	CR block (S301M-102K)
CR405	87-028-025-01	CR block (S472Z-102K)
CR407,408	87-028-029-01	CR block (F103Z-103N-102K)
CR410	87-028-022-01	CR block (S103Z-223K)
		<Resistors>
R401,402	88-188-821-01	820Ω 1/4W ±5% ELR
R404	88-188-102-01	1kΩ 1/4W ±5% ELR
R405,407	88-188-152-01	1.5kΩ 1/4W ±5% ELR
R403	88-188-224-01	220kΩ 1/4W ±5% ELR
		<Capacitors>
C408,410, 414	88-336-200-01	2.2μF 25V Electrolytic
C406	88-336-500-01	4.7μF 25V Electrolytic
C403,407	88-335-110-01	10μF 16V Electrolytic
C415	88-727-720-01	0.0047μF Mylar
C401	88-727-830-01	0.022μF Mylar
C412,413	88-214-720-01	0.0047μF Ceramic
C404,411	88-214-810-01	0.01μF Ceramic
C402,409	88-212-830-01	0.022μF Ceramic
C405	88-212-810-01	0.01μF Ceramic

Symbol No.	Part No.	Description
≪AFC SWITCH CIRCUIT BOARD SECTION≫		
PCB-D	82-530-632-11	AFC switch circuit board
S10	87-031-351-01	Lever switch (AFC)
		<Resistor>
R125	88-134-102-01	1kΩ 1/4W ±10%
≪REC/PB CIRCUIT BOARD SECTION≫		
PCB-E	82-530-620-11	REC/PB circuit board
TR201	89-312-222-01	Transistor, 2SC1222 (E)
TR202,208, 209,210	89-309-456-01	Transistor, 2SC945 (P)
TR203	89-402-275-01	Transistor, 2SD227 (V)
TR204,205	89-200-562-01	Transistor, 2SB56 (B)
TR206	89-309-452-01	Transistor, 2SC945 (Q)
TR207	89-312-221-01	Transistor, 2SC1222 (F)
TR211,212	89-404-006-01	Transistor, 2SD400 (F)
D201,202	87-027-097-01	Diode, IS1555
D203,204	88-052-188-11	Diode, IS188 (FM)
D205	87-026-104-01	Diode, VD1121
D206	87-026-069-01	Diode, WZ052
L201	87-007-080-01	OSC coil
L202,203	87-005-093-01	Choke coil, 4.7mH
L301	87-003-039-01	Choke coil, 36μH
T201	87-002-101-01	Step-up transformer
T202	87-002-083-01	Input transformer
T203	82-428-603-01	Output transformer
J1	87-032-834-01	DIN jack, 5P (MIC, REC/PB)
J2	87-032-681-01	DIN jack, 2p (EXT-SP)
S2	87-031-304-01	Slide switch (REC/PB)
S3	87-031-384-01	Slide switch (TAPE/RADIO)
		<Resistors>
R276	88-181-122-01	1.2kΩ 1/4W ±5% ELR
R242	88-181-103-01	10kΩ 1/4W ±5% ELR
R214	88-181-123-01	12kΩ 1/4W ±5% ELR
R244	88-181-183-01	18kΩ 1/4W ±5% ELR
R246	88-181-303-01	30kΩ 1/4W ±5% ELR
R230	88-181-823-01	82kΩ 1/4W ±5% ELR
R259,260, 261,262	88-130-109-01	1Ω 1/4W ±5%
R251	88-130-629-01	6.2Ω 1/4W ±5%
R201	88-130-100-01	10Ω 1/4W ±5%
R218	88-130-330-01	33Ω 1/4W ±5%
R258,268	88-130-560-01	56Ω 1/4W ±5%
R255	88-130-101-01	100Ω 1/4W ±5%
R221,247, 253,257, 272	88-130-151-01	150Ω 1/4W ±5%
R205,213, 256	88-130-471-01	470Ω 1/4W ±5%
R203,210, 215,219	88-130-561-01	560Ω 1/4W ±5%
R211,254	88-130-681-01	680Ω 1/4W ±5%
R209	88-130-751-01	750Ω 1/4W ±5%
R227,235	88-130-821-01	820Ω 1/4W ±5%
R216,248, ,265	88-130-102-01	1kΩ 1/4W ±5%
R224,237	88-130-122-01	1.2kΩ 1/4W ±5%
R208,239, 269,273	88-130-222-01	2.2kΩ 1/4W ±5%
R267	88-130-272-01	2.7kΩ 1/4W ±5%
R202,271	88-130-332-01	3.3kΩ 1/4W ±5%
R234	88-130-562-01	5.6kΩ 1/4W ±5%
R217,270	88-130-822-01	8.2kΩ 1/4W ±5%

Symbol No.	Part No.	Description
R225,252	88-130-103-01	10kΩ 1/4W ±5%
R245	88-130-123-01	12kΩ 1/4W ±5%
R231,232, 266	88-130-153-01	15kΩ 1/4W ±5%
R204,212, 250	88-130-223-01	22kΩ 1/4W ±5%
R228,238	88-130-273-01	27kΩ 1/4W ±5%
R222,229	88-130-333-01	33kΩ 1/4W ±5%
R263,	88-130-363-01	36kΩ 1/4W ±5%
R249	88-130-563-01	56kΩ 1/4W ±5%
R226,236	88-130-104-01	100kΩ 1/4W ±5%
R207	88-130-154-01	150kΩ 1/4W ±5%
R220	88-130-224-01	220kΩ 1/4W ±5%
R264	88-130-394-01	390kΩ 1/4W ±5%
R233	88-130-105-01	1MΩ 1/4W ±5%
R275	88-150-470-01	47Ω 1W ±5%
R243	87-029-010-01	10Ω Fuse resistor
		<Capacitors>
C207	88-337-100-01	1μF 50V Electrolytic
C226	88-337-200-01	2.2μF 50V Electrolytic
C236,250	88-336-500-01	4.7μF 25V Electrolytic
C217	88-335-500-01	4.7μF 16V Electrolytic
C210	88-335-300-01	3.3μF 16V Electrolytic
C209,211, 216,237	88-335-110-01	10μF 16V Electrolytic
C242,247, 302	88-335-130-01	1000μF 10V Electrolytic
C223	88-333-510-01	47μF 10V Electrolytic
C220	88-333-210-01	22μF 6.3V Electrolytic
C205,221, 225	88-332-120-01	100μF 6.3V Electrolytic
C228,238, 251	88-332-220-01	220μF 6.3V Electrolytic
C208	88-332-520-01	470μF 6.3V Electrolytic
C201	87-015-093-01	0.22μF 6.3V Aluminum solid
C234	88-707-610-01	0.001μF Mylar
C241,243	88-727-660-01	0.0022μF Mylar
C206	88-727-700-01	0.0033μF Mylar
C235	88-727-850-01	0.047μF Mylar
C239,240	88-727-750-01	0.0082μF Mylar
C143,218, 219,249	88-727-810-01	0.01μF Mylar
C212	88-727-910-01	0.1μF Mylar
C203	88-708-610-01	0.001μF 100V Mylar
C204	88-708-630-01	0.0015μF 100V Mylar
C213	88-708-660-01	0.0022μF 100V Mylar
C214,215	88-708-820-01	0.022μF 100V Mylar
C252	88-212-410-01	100pF Ceramic
C224,246, 255	88-212-450-01	150pF Ceramic
C248	88-212-510-01	300pF Ceramic
C202,222, 301	88-214-810-01	0.01μF Ceramic
C244	88-218-570-01	680pF Ceramic
C245	88-218-580-01	820pF Ceramic
C233	88-218-610-01	0.001μF Ceramic
C253	88-218-520-01	330pF Ceramic
C254	88-238-520-01	330pF Ceramic
≪VOLUME CIRCUIT BOARD SECTION≫		
PCB-F	82-530-622-11	Volume circuit board
TR103	89-303-724-01	Transistor, 2SC372 (Y)
TR104	89-106-285-01	Transistor, 2SA628 (F)
VR201,202	82-431-605-01	Volume, 20kΩ-A (BASS, TREBLE)
VR203	87-021-452-01	Volume, 10kΩ-D (VOLUME)

Symbol No.	Part No.	Description
		<Resistors>
R124	88-130-271-01	270Ω 1/4W ±5%
R241	88-130-102-01	1kΩ 1/4W ±5%
R274	88-130-332-01	3.3kΩ 1/4W ±5%
R240	88-130-103-01	10kΩ 1/4W ±5%
		<Capacitors>
C232	87-015-093-01	0.22μF 6.3V Aluminum solid
C229	88-717-740-01	0.0068μF Mylar
C230	88-727-970-01	0.082μF Mylar
C231	88-727-840-01	0.033μF Mylar
≪POWER CIRCUIT BOARD SECTION≫		
PCB-G	82-530-623-01	Power circuit board
D301	87-027-167-01	Diode, S2RC10 (BLK)
D302	87-027-168-01	Diode, S2RC10R (BRN)
F1	87-035-067-01	Fuse, 100mA "T"
	87-057-766-11	Fuse label, 100mA "T"
F2	87-035-064-01	Fuse, 1A "T"
	87-057-770-01	Fuse label, 1A "T"
	87-032-323-01	Fuse clamp
		<Capacitors>
C303	88-333-230-01	2200μF 10V Electrolytic
C304,305, 306,307	88-205-810-01	0.01μF Ceramic

Symbol No.	Part No.	Description
≪TAPE SELECTOR SWITCH CIRCUIT BOARD SECTION≫		
PCB-H	82-530-633-01	TAPE SELECTOR SWITCH circuit board
S9	87-031-351-01	Lever switch (TAPE SELECTOR)
≪MISCELLANEOUS≫		
T301	82-442-663-01	Power transformer
D104	82-442-601-01	Light emitting diode, SR106CA (TUNING IND)
RPH	87-046-143-01	REC/PB head
EH	87-046-122-01	Erase head
ECM	85-868-012-01	ECM, CMU9 (R)
M	80-661-882-01	Motor, AM130B
SP	82-530-608-01	Speaker
LM	82-530-601-01	Level meter
J3	82-266-214-11	DC jack
J4	87-032-434-01	AC jack
S4	82-409-630-01	Slide switch (OSC)
S5	87-031-363-01	Micro switch (MOTOR)
S6	87-031-393-01	Leaf switch (AUTO STOP)
S8	87-031-362-01	Micro switch (SLEEP)
S11	87-031-280-01	Slide switch (VOLTAGE SELECTOR)

ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
1a	82-530-854-01		Printed indiv., Packing (EE model only)	*	1	
1b	82-530-853-01		Printed indiv., Packing (UK model only)	*	1	
2	82-442-853-01		Cushion R, Printed indiv.	TPR-215	1	
3	82-442-852-01		Cushion L, Printed indiv.	TPR-215	1	
4	87-050-143-01		Poly-vinyl sack (for case)		1	
5	87-047-039-01		Battery, SUM-1AG		4	
6	80-291-657-01		Tape cassette, DMC-146		1	
7	87-051-171-01		Poly-vinyl sack (for instruction)		1	
8a	82-530-906-01		Instructions booklet (EE model only)	*	1	
8b	82-530-907-01		Instructions booklet (UK model only)	*	1	
9	87-056-009-01		Distributors list		1	
10	80-032-478-01		DIN erase plug		1	
11	87-051-137-01		Poly-vinyl sack (for AC cord)		1	
12a	87-034-070-01		AC cord (EE model only)		1	
12b	87-034-841-01		AC cord (UK model only)		1	
13	82-442-859-01		Cushion, Carrying case (EE model only)		1	
14	82-530-951-01		Carrying case (EE model only)	*	1	
15	87-056-008-01		Label, AC cord (UK model only)		1	
16	82-442-860-01		Cushion, Auxiliary (EE model only)		2	

For Service Manuals Contact
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